PATENT COOPERATION TREATY PCT

INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference R05010PCT	FOR FURTHER	see Form PCT/ISA/220			
	ACTION	as well as, where applicable, item 5 below.			
International application No.	International filing date(day/mo				
PCT/JP2005/007269	07.04.2005	14.04.2004			
Applicant					
RICOH COMPANY, LTD.					
This international search report has been p	repared by this International Search	ning Authority and is transmitted to the applicant according			
to Article 18. A copy is being transmitted	to the International Bureau.				
This international search report consists of	f a total of 3 sheets.				
It is also accompanied by a co		l in this report.			
	, ,	The sub-report			
1. Basis of the report					
	e international search was carrie nless otherwise indicated under thi	d out on the basis of the international application in the			
		translation of the international application furnished to			
this Authority (Rule 23		ambiation of the mechanisma application furnished to			
b. With regard to any nucleotic	le and/or amino acid sequence (lisclosed in the international application, see Box No. I.			
		in the international approaches, see Box 140. 1.			
2. Certain claims were found	unsearchable (See Box II).				
3. Unity of invention is lacking	- (S P HD				
3. Unity of invention is lacking	3 (2cc Box III).				
4. With regard to the title,					
the text is approved as sub-	mitted by the applicant.				
the text has been established by this Authority to read as follows:					
	· · · · · · · · · · · · · · · · · · ·				
		•			
5. With regard to the abstract,					
the text is approved as submit	tted by the applicant				
· · · · · · · · · · · · · · · · · · ·		nis Authority as it appears in Box No. IV. The applicant			
		ational search report, submit comments to this Authority.			
6. With regard to the drawings,					
a. the figure of the drawings to be published with the abstract is Figure No. 1					
ar are usure of me maxings to be br	ionsued with the adstract is Fig	gure No			
as suggested by the app	olicant.				
as selected by this Auth	ority, because the applicant failed	to suggest a figure.			
	nority, because this figure better ch				
b. none of the figures is to be pu					

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/007269

CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H01S5/183, 5/026, 5/04, 5/343, 5/40

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01S5/183, 5/026, 5/04, 5/343, 5/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, IEEE, Science Direct, JSTPlus(JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2004-103754 A (RICOH KK) 2004.04.02, [0031] - [0173] (no patent family)	1-12
A	T.Kndol et al, Electronics Letters, Vol.38, No.6, 2002, p.278-280, Fig.1	1-12
A	JP 2002-217491 A (CANON KK) 2004.04.02, [0017] - [0059] & <u>US2002/094004 A1</u>	1-12
A	JP 2000-261096 A (AGILENT TECHNOLOGIES INC) 2000.09.22, [0023] - [0042] & US6252896 A & EP 1037341 A2	1-12
А	JP 2003-283051 A (TOKYO SHIBAURA ELECTRIC CO) 2003.10.03, [0020] - [0120] (no patent family)	1-12

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V	Further documents are listed in the continuation of Box C.	Γ	See patent family annex.	
* "A" "E" "L" "O" "p"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"T" "X" "Y"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date	of the actual completion of the international search Date of mailing of the international search report		of mailing of the international search report	
20.06.2005		05. 7. 2005		
Nam	e and mailing address of the ISA/JP	Auth	norized officer 2K 9712	
	Japan Patent Office	Tos	hiyasu KANETAKA	
3-4-	3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Tele	phone No. +81-3-3581-1101 Ext. 3255	

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/007269

		PCT/JP2	2005/007269				
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where appropriate, of the releva	Relevant to claim No.					
A	JP 2001-358403 A (NIPPON TELEGRAPH & TE 2001.12.26, [0018] - [0041] (no patent		1-12				
A	S. Riyopoulos, Applied Physics Letters, No.20, 1999,p.3057-3059, Fig.2	1-12					
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